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prospecting for oil in Wyoming and Kentucky.

Chas. H. Richardson. Some results of recent geological research in Vermont.

February 6. H. S. Steensland. The action of benzol on animals.

Frank P. Knowlton. The electrocardiogram, with demonstration.

March 14. E. D. Roe, Jr. The irreducible factors of $1 + x + x^2 + \dots + x^{(n-1)}$.

R. R. Tatnall. The production and measurement of low pressures.

April 11. L. M. Hickernell. The habits and structure of the 17-year cicada.

H. F. A. Meier. The fixation of atmospheric nitrogen by plants.

May 9. Louis Mitchell. The use of diagrams in the solution of hydraulic problems.

Rich D. Whitney. The destruction of underground structures by electrolysis.

THE TROPICAL RESEARCH STATION OF THE NEW YORK ZOOLOGICAL SOCIETY IN BRITISH GUIANA

AFTER two years of temporary suspension on account of the war, the Tropical Zoological Station of the New York Zoological Society, in British Guiana, is again proceeding with its various activities. Director William Beebe now has with him Inness Hartley, research associate, Alfred Emerson, research assistant, and John T. Van, artist. In a short time two visiting zoologists will arrive at the station for the pursuit of special studies.

In order to live and work in close proximity to the jungle and the river life of British Guiana, the old station at Kalacoon was vacated, and the new one was planted in the government Penal Settlement, at Katabo. There, in an ideal spot, a commodious laboratory and dormitory have been developed, and an extensive program of investigation has been laid out. Three tropical rivers of considerable importance, the Essequibo, Cuyuni and Mazaruni, render the whole western half of British Guiana available to the station near the meeting-place of their waters. The Mazaruni Rapids are eight miles above the station.

A garden has been planted, and Indian hunters bring to the table of the station varied supplies of tapir, deer and agouti meat and fish. Animal life in close proximity to the

station is abundant, and the choice of subjects for investigation is fairly bewildering.

Again has the government of British Guiana been most liberal in promoting the objects of the station, and the Zoological Society looks forward with lively interest to the year's record of results.

SCIENTIFIC NOTES AND NEWS

THE RT. HON. JOHN WILLIAM STRUTT, LORD RAYLEIGH, the great English physicist, died on July 1, at the age of seventy-six years. His eldest son is the Hon. Robert John Strutt, professor of physics in the Imperial College of Science, London.

WESLEYAN UNIVERSITY, at its recent commencement, conferred the degree of doctor of science on Edward Lee Thorndike, '96, professor of psychology at Teachers' College, Columbia University; Frank Bowers Littell, '91, astronomer, Naval Observatory, Washington, D. C., and George Arthur Burrell, recently in command of United States Army Chemical Service.

At the commencement of the University of Vermont the degree of doctor of letters was conferred on Dr. Liberty Hyde Bailey, formerly director of the college of agriculture of Cornell University, and the honorary degree of doctor of science on Dr. Marshall Avery Howe, curator of the museums of the New York Botanical Garden. Dr. Bailey delivered the commencement address, taking for his subject, "The aspiration to democracy."

THE honorary professional degree of master of horticulture has been conferred upon Edmund H. Gibson, of the U. S. Bureau of Entomology, by the Michigan Agricultural College.

THE agricultural building at the Kansas State Agricultural College has been named Waters Hall in honor of Dr. Henry Jackson Waters, former president of the college, now managing editor of the *Kansas City Weekly Star*.

DR. D. T. MACDOUGAL, director of the department of botanical research, Carnegie Institution of Washington, was elected a corresponding member of the Société Nationale

d'Acclimatation de France, at the meeting of May 25, under the presidency of Minister Lebrun.

THE title of Commander of the Order of the Crown of Belgium has been conferred on Dr. W. J. Holland, director of Carnegie Institute, Pittsburgh, in recognition of the "devotion shown by him to the cause of Belgium."

MAJOR W. H. EDDY, of the section of food and nutrition of the Surgeon General's Office has recently returned from abroad. After the departure of Major P. A. Shaffer, Major Eddy was in charge of the work of the section in France. He is now temporarily on duty at the Surgeon General's Office. Major F. L. Scott, of the section of food and nutrition of the Surgeon General's Office has also returned from abroad and received his discharge from the army.

PRESIDENT KENYON L. BUTTERFIELD, of the Massachusetts Agricultural College, has returned from France.

CAPTAIN LAWRENCE J. COLE, professor of psychology at the University of Colorado, has received his discharge from the army and has returned to the university.

PROFESSOR MAX ELLIS, of the department of biology of the University of Colorado, who has been on leave of absence for two years engaged in government service, has resigned to accept a permanent government position.

WE learn from the *Journal* of the American Medical Association that Dr. Alexander C. Abbott, of the University of Pennsylvania, who recently returned from France, where he served with the Medical Corps of the U. S. Army, has been nominated for a position on the Philadelphia Board of Health. Dr. Frank C. Hammond, who was appointed to fill the vacancy, insisted on resigning the post that Dr. Abbott might be reappointed to his former position.

THE Harvard Corporation has made the following appointments on the Harvard Cancer Commission: Dr. Robert B. Greenough, director, and Drs. Channing C. Simmons, secre-

tary (both of Boston); Roger Pierce, treasurer; James H. Wright, Boston, pathologist; William Duane, research fellow in physics; William T. Bovie, research fellow in biology; Henry Lyman, Boston, research fellow in chemistry, and Ernest W. Goodpasture, Boston, research fellow in pathology.

DR. WINFIELD SCOTT HALL, for more than twenty years a member of the faculty of Northwestern University Medical School, Chicago, has been appointed to take charge of the newly organized department of social hygiene of the Presbyterian Board of Temperance and Moral Welfare.

DR. CHARLES J. GALPIN, professor of agricultural economy in the college of agriculture of the University of Wisconsin, has been appointed economist in charge of farm-life studies of the United States Department of Agriculture.

MR. CHARLES SNYDER, head keeper of reptiles in the New York Zoological Park, has been made director of the Buffalo Zoological Gardens.

MR. F. FLIPPANCE, at one time a temporary assistant in the herbarium at Kew, has been appointed assistant curator of the Botanic Gardens, Singapore.

DR. J. E. KIRKWOOD, professor of botany in the Montana State University at Missoula, has been granted leave of absence for a year and will work in the University of California laboratories. During his absence the department will be in charge of Assistant Professor Paul W. Graff.

DR. K. SATO, assistant professor of agriculture in the University of Tokio, is studying problems of farm management and agricultural economics in the United States.

H. S. GALE, of the U. S. Geological Survey, has been making a survey of the potash situation in Alsace.

W. R. INGALLS has retired from the editorship of the *Engineering and Mining Journal*, but will continue as consulting editor. He has resumed practise as consulting engineer with offices in New York.

PROFESSOR J. F. KEMP has recently found among other stored articles in the department of geology of Columbia University a notebook of the late Professor John Strong Newberry, containing notes in French taken by him while a student, and covering the lectures on botany delivered by Professor Brongniart in Paris in 1849 and 1850. Through Professor Harper, Professor Kemp has transmitted this very interesting document to the New York Botanical Garden for preservation, and it has been added to the library.

DR. C. L. MARLATT, assistant chief of the Bureau of Entomology, and chairman of the Federal Horticultural Board, gave an address to the Entomological and Zoological Seminar of the Kansas State Agricultural College on May 19, on some work of the Federal Horticultural Board.

DR. ALBERT R. MANN, dean of Cornell College of Agriculture, delivered the address at the forty-ninth commencement of the Massachusetts Agricultural College at Amherst, on June 24. He spoke on "The place of the trained man in agriculture."

THE Croonian Lecture on the biological significance of anaphylaxis was delivered on May 29, before the Royal Society, by Dr. H. H. Dale, F.R.S., director of the biochemical and pharmacological department of the Medical Research Committee.

SIR ARTHUR NEWSHOLME gave a public address on the evening of June 20, at the University of Toronto, on "Some problems of preventive medicine of the immediate future." Sir Arthur was the guest of honor at a dinner given by Dr. Edmund E. King, Toronto, president of the Academy of Medicine.

FATHER WALTER SIDGREAVES, S.J., director of the Stonyhurst College Observatory, known for his contribution to stellar spectroscopy and other work, died on June 12, in his eighty-second year.

THE four hundredth anniversary of the death of Leonardo da Vinci was celebrated at Naples on May 2. The *British Medical Journal* states that an address was delivered by Professor Filippo Bottazzi. The great artist

was an enthusiastic anatomist. He began his studies in the Hospital of Santa Maria Nova at Florence in 1489, when he was in his thirty-seventh year, and continued them at Milan in the Ospedale Maggiore and the Collegio die Fisici, and afterwards at Rome in 1513 till they were forbidden by Leo X., on a denunciation of body-snatching made by some German enemies. He dissected more than thirty bodies of men and women of various ages, and his observations were collected in one hundred and twenty books; much of the manuscript has been lost, and the drawings designed to illustrate the text of a great work on anatomy to have been written in conjunction with Marc' Antonio della Torre, the famous professor of Pavia, lay forgotten in the Ambrosian Library at Milan, and afterwards in the Royal Library at Windsor, until they were discovered in 1902. They are now in course of publication.

THE faculty of the North Dakota Agricultural College, organized under the name College Teachers Organization, voted on June 9 to apply for a charter in the American Federation of Teachers. Eighty per cent. of the teaching staff are members of the new organization.

THE annual general meeting of the Society of Chemical Industry will be held in London on July 15-18, under the presidency of Professor Henry Louis. *Nature* states that on July 15 there will be a conference at the Mansion House, when addresses will be given by representatives of the Inter-Allied Conference. Sir William J. Pope, chairman of the Federal Council for Pure and Applied Chemistry, will open the conference. The subjects of other conferences will be: Power Plant in Chemical Works; Empire Sugar Production; Dyestuffs, Synthetic Drugs and Associated Products; The Chrome Tanning Industry; and Recent Developments in the Fermentation Industries. A reception will be held at the British Scientific Products Exhibition, Central Hall, Westminster, on July 17.

WASHINGTON UNIVERSITY SCHOOL OF MEDICINE has received a grant of \$5,000 to be used

for the investigation of hypertrichiasis, from a person whose name is for the present withheld. A committee in charge of the grant has been appointed, consisting of the dean, Dr. G. Canby Robinson; Dr. M. F. Engman, of the department of dermatology, to whom the grant was proposed, and Dr. Charles H. Danforth, of the department of anatomy, who will carry on the investigation which will be chiefly in the fields of anthropology and heredity.

A "ROOSEVELT Institute of American Family Life," to be developed in connection with the eugenics record office of the Carnegie Institution, in Washington, has been proposed to the Roosevelt Permanent Memorial National Committee by the Eugenics Research Association of Cold Spring, Long Island. The association in outlining the project explains that it owns eighty acres of land in Roosevelt's own voting district, and has already laid the foundation for the study of the factors controlling American family life. In the announcement, which proposes the erection of the memorial institute at Oyster Bay, the association declares: "This memorial institute will strive to advance those ideas of responsible and patriotic parenthood for which Theodore Roosevelt so valiantly battled." In addressing the national committee the association wrote: "We respectfully call your attention to the following factors which contribute to the fitness of this suggestion: The Roosevelt memorial should, like the man in whose memory it is built, battle for the advancement of the eugenical ideal in American family life. It should be located in Roosevelt's own neighborhood. The safety of the foundation fund could be absolutely secured by placing it as trust with the Carnegie Institution of Washington. Its proximity to New York City makes the Oyster Bay neighborhood an exceptionally fitting place for the institute."

UNIVERSITY AND EDUCATIONAL NEWS

HARVARD UNIVERSITY is bequeathed \$100,000 for the study of methods to reform and cure

criminals and mental defectives by surgery under the will of Dr. J. Ewing Mears.

IN accordance with the will of the late Clementine C. Conkling, real estate in the city of Omaha to the value of approximately twenty-five thousand dollars has been bequeathed to the college of medicine, University of Nebraska, Omaha.

THE Goldsmiths' Company has offered the sum of £15,000 to London Hospital for the endowment of a chair of bacteriology, to be known as the Goldsmiths' Company's chair of bacteriology.

THE Utah Agricultural Experiment Station recently established a department of human nutrition. R. L. Hill, Ph.D. (Cornell), formerly of the Maryland Agricultural Experiment Station and first lieutenant in the Sanitary Corps of the Army, has been appointed head of the department with Blanche Cooper, B.S., formerly nutrition expert for the Utah Agricultural College Extension Division, associate.

DR. HARRY WOODBURN CHASE, professor of psychology, has been elected president of the University of North Carolina.

DR. A. F. KIDDER has resigned as professor of agronomy in the college of agriculture, Louisiana State University, to accept a position as agronomist and assistant director of the State Agricultural Experiment Station at Baton Rouge.

NATHAN FASTEN, B.S. (C. C. N. Y. '10), Ph.D. (Wisconsin, '14), has been promoted to the rank of assistant professor of zoology at the University of Washington, Seattle.

PROFESSOR T. BRAILSFORD ROBERTSON, professor of biochemistry in the University of Toronto, has been appointed to succeed the late Sir Edward C. Stirling as professor of physiology in the University of Adelaide, South Australia.

MR. W. L. BRAGG has been appointed to the Langworthy chair of physics in the University of Manchester in succession to Sir Ernest Rutherford.